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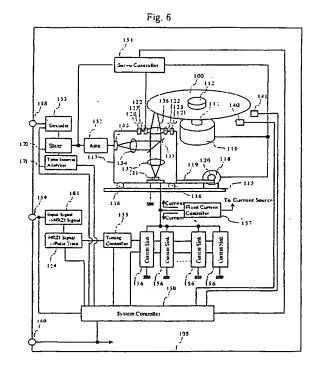
EUROPEAN PATENT APPLICATION

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 23 Kingsway London WC2B 6HP (GB)
- (54) Information recording method, information recording medium and information recording apparatus
- (57) Optimum edge recording methods are previously held in a control data zone on the recording medium (100), and one of the methods is selected in a write mode by referring to the recorded methods. An information recording apparatus for forming a recording mark by converting an energy beam to a multi-pulsed train and irradiating the beam onto the recording medium (100) includes that change-over can be realized between mark edge control based on control of both pulse edge positions and mark edge control based on control of one of the pulse edge positions.



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EUROPEAN SEARCH REPORT

Application Number EP 99 30 6165

	DOCUMENTS CONSIDI	ERED TO BE RELEVANT		
Category	Citation of document with in of relevant passa	dication, where appropriate, ges	Releva to clain	
A	US 5 642 343 A (IDE 24 June 1997 (1997- * abstract; figures * column 25, line 1	06-24)	1-20	G11B7/125 G11B7/00
A	LTD) 24 September 1 * abstract; figures * page 7, line 3 -	4-15 *	1-20	
А	US 5 499 227 A (HIG 12 March 1996 (1996 * abstract; figures * column 3, line 64	-03-12)	1-20	
A	MARIA ;PHILIPS ELEC PHILIP) 21 August 1 * abstract; figures	997 (1997-08-21)	1-20	TECHNICAL FIELDS SEARCHED (Int.CI.7)
А	30 December 1997 (1 * abstract: figures	IYAMA HISATAKA ET AL) 997-12-30) 1A-D,10,13 * 5 - column 21, line 62	1-20	GIIB
E	EP 0 933 759 A (SON 4 August 1999 (1999 * abstract * * page 2, line 10 - * page 4, line 39 - figures 6A-6H *	-08-04) line 20; figure 1 *	1,2	
	The present search report has	been drawn up for all claims	1	
	Place of search	Date of completion of the search		Examiner
	THE HAGUE	20 November 2000)	Pariset, N
X:pa Y:pa doo A:led O:no	CATEGORY OF CITED DOCUMENTS ricularly relevant if taken alone ricularly relevant if combined with anot cument of the same category chinogical background in-written disclosure ermediate document	L : document cited	cument, but ite in the apolici for other reas	published on, or ation

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 30 6165

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-11-2000

Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
US 5642	343 A	24-06-1997	JP JP	2915098 B 4061028 A	05-07-1999	
			JP JP JP US US US US DE WO	3063314 B 5135363 A 5298737 A 5513165 A 5590111 A 5345434 A 5732061 A 5418770 A 4293957 C 4293957 T 9310527 A	27-02-1992 12-07-2006 01-06-1993 12-11-1993 30-04-1996 31-12-1996 06-09-1994 24-03-1998 23-05-1995 26-02-1998 31-07-1997 27-05-1993	
EP 0797	193 A	24-09-1997	ON CN CN EP EP EP WO	5290437 A 1173941 A 1250210 A 1250211 A 1018727 A 1020850 A 0991058 A 0991059 A	05-11-1993 18-02-1998 12-04-2006 12-04-2006 12-07-2006 19-07-2006 05-04-2006	
US 5499:	 227 A	12-03-1996	JP US JP JP	9714143 A 2000048366 A 5745467 A 2643780 B 7037250 A	17-04-1997 18-02-2000 28-04-1998 20-08-1997 07-02-1995	
WO 9730	440 A	21-08-1997	AU AU EP EP WO JP JP US	1554497 A 1614797 A 0821825 A 0830675 A 9730444 A 11504462 T 11506248 T 5802032 A	02-09-1997 02-09-1997 04-02-1998 25-03-1998 21-08-1997 20-04-1999 02-06-1999	
US 57038	855 A	30-12-1997	JP JP JP DE - KR KR US	6295439 A 7029239 A 7050027 A 4411855 A 131434 B 204001 B 5848045 A	21-10-1994 31-01-1995 21-02-1995 13-10-1994 22-04-1998 15-06-1999 08-12-1998	

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 30 6165

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-11-2000

	Patent document cited in search report		Publication date	Patent family member(s)			Publication date		
	EP	0933759	A	04-08-1999	JР	11213429	A	06-08-19	999
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